

10(4); 21(5); 21(6) PHASE I BOOK EXPLOITATION NOV/2057

Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniya radioizotopov i stabil'nykh izotopov i izlucheniya v narodnom khozyaystve i nauke. Ed. Moscow, 1957

Problematika i gidrodinamika: trudy konferentsii, tom 5 (East Radiations and Hydrodynamics). Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, Vol. 5. Moscow, Gosenergoizdat, 1958. 88 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR, and USSR, Glavnoye upravleniye po ispol'szovaniyu atomnoy energii.

Ed.: M. A. Syrtikovich (Resp. Ed.), G. Ya. Khaidakovskiy, and M. S. Pechenkin (Ed. of Publ. House). L. S. Kiselevskaya, Tech. Ed.; E. I. Boronov.

REMARKS: This collection of articles is intended for scientists and laboratory workers concerned with the use of radioactive and stable isotopes.

CONTENTS: This collection of papers deals with the application of radioactive and stable isotopes as measuring tools in various types of scientific investigation. In particular, the following types of scientific investigation are mentioned. References are given after each of the articles.

2. Bartolomey, G.O., Ya.G. Vinokur, V.A. Kolosovskiy, and V.I. Kuznetsov. Use of Gamma Rays for Studying the Process of Diffusion in Solids. 12

3. Dubinskaya, L.A., and V.M. Mostovskiy. Use of Gamma-Radiation for Studying the Hydrodynamics of a Multichannel System. 13

4. Plakotkin, L.G., and M. A. Shustkin. Method of "Tagged" Atoms for Investigating Water and Steam Content in Surface Boiling of a Fluid. 14

5. Pechenkin, M.S., and M. A. Shustkin. Method of "Tagged" Atoms for Determining the Specific Surface Area of Quartz Adsorbent Powders by the Sorption Method With the Use of Tagged Atoms. 15

6. Kuznetsov, V.I., and L.I. Burdakov. Use of Radioactive Isotopes for Studying Surface Corrosion of Concrete. 16

7. Yulievskiy, M.A., V.I. Pechenkin, and V.A. Iudin. Methods for Determining the Density and Moisture Content of Soils With the Aid of Radioactive Emitters. 17

8. Pelosov, L.G., and M. A. Burman. Study of the Processes of Moisture Transfer in Building Materials by Means of Gamma-Radiation. 18

9. Syrtikovich, M.A., L.D. Daybulin, and L. E. Shchegolev. Use of Radioactive Isotopes for Investigating the Volatility of Salts in Water Vapor at High Pressures. 19

10. Shterman, L.S., A.Ya. Antony, and A.V. Baranov. Investigation of the Characteristics of Vapor at a Pressure of 185 atm. With the Aid of Radioactive Isotopes. 20

11. Dubinskaya, V.A. Use of Radioactive Isotopes for Observing the Hydrodynamics of Glass Mass in Glass Furnace Tanks. 21

12. Kuchinskaya, V.V. Use of Radioactive Isotopes in Studying the Filtration of Fluids Through Porous Media. 22

13. Kuchinskaya, D.I., and A.Ya. Pechenkin. Radioisotope Methods for Investigating Flow Processes of Fluids in a Porous Medium. 23

14. Boris, M.A., L.S. Tarubin, V.S. Kozlovskiy, and L.I. Kuznetsov. Investigation of the Hydrodynamics of a Fluid in the Central Part of a Settling Centrifuge With the Aid of Radioactive Isotopes. 24

15. Yulievskiy, M.A., V.V. Chumakov, and A.Ya. Kuznetsov. Investigation of the Hydrodynamics of Fluids in Pipes Under Laboratory and Field Conditions With the Use of Radioactive Isotopes. 25

16. Arshagovskiy, M.A. Use of Radioactive Isotopes for Investigating Suspensions of River Silt. 26

17. Yulievskiy, M.A., and A.S. Shubin. Use of Radioactive Isotopes for Investigating the Mechanism of the Drying Process. 27

DUBROVSKIY, V.A.

AUTHOR: None Given

72-2-18/20

TITLE: The Production of Glass in the Ukrainian SSR Must be Developed
(Rasvivat' proizvodstvo stekla v USSR)
From the Technical Conference of Representatives of the Glass Industry
(S tekhnicheskogo soveshchaniya rabotnikov stekol'noy
promyshlennosti).

PERIODICAL: Steklo i Keramika, 1958, . . . Nr 2, pp. 43-45 (USSR)

ABSTRACT: This conference was called by the Ministry for the Industry of
Building Materials of the Ukrainian SSR as well as by the Ukrainian-
and Stalin-Regional NTO for Building Materials and took place on
December 10-12, 1957 at Konstantinovka. The minister for the build-
ing material industry of the Ukrainian SSR, Moros, opened the con-
ference and stressed the fact that the production of glass must be
increased. The following reports were further delivered:
1.) Patenko, (Deputy Minister for the Building Material Industry)
spoke about the present stage of the glass industry, and pointed
out what work must be carried out in future.
2.) Solinov (Director of the Institute for Glass) gave a report con-
cerning new kinds of glass products for dwelling- and industrial
buildings and how they are to be properly used in practice.

Card 1/5

The Production of Glass in the Ukrainian SSR Must be
Developed. From the Technical Conference of Representatives
of the Glass Industry

72-2-18/20

- 3.) Dubrovskiy (Director of the Ukrainian Branch of the Institute for Glass) described the work carried out by this institute.
- 4.) Tykachinskiy (Institute for Glass) gave a detailed description of the part played by the factors determining the intensity of the process of glass melting.
- 5.) Zhirnov ("Proletariy" plant) spoke about the success achieved by this plant.
- 6.) Lev (Representative of the Giprostaklo Institute) spoke about the distribution of new products.
- 7.) Alekseyev (Academy for Building and Architecture of the USSR) spoke about the assortment, quality, and value of building glass.
- 8.) Il'inskiy (Head of the Pyrometric Department of the Giprosteklo) spoke about the perfecting of glass smelting furnaces during future repair work.
- 9.) K.I. Borisov (PKB of the Institute for Glass) spoke about improved constructions of glass smelting furnaces and flues.

Card 2/5

The Production of Glass in the Ukrainian SSR Must be Developed. From the Technical Conference of Representatives of the Glass Industry

72-2-18/20

- 10.) Solomin, Professor (Institute for Glass) spoke about refractories for tank furnaces.
- 11.) Pronin (Lisichansk Works) reported about dinas products of high stability.
- 12.) Bondarev (Director of the "Avtosteklo" Works, Konstantinovka) dealt with prospects for building glass.
- 13.) Firer (Representative of the Gomel Plant) spoke about the production and use of glass tubes and foam glass.
- 14.) Zabkov (Director of the Plant imeni October Revolution) spoke about the prospects of the production of special glass products.
- 15.) Bashbeyk-Melikov (Scientific Collaborator of the Institute for Glass) gave a report on building glass blocks.
- 16.) Abakumov (Chief Engineer of the Skopino Works) spoke about the production of glass blocks in this plant.
- 17.) Shatokhin (Institute for Glass), Polik (Institute for Glass Fibres), Koryagina (Ivotek Plant) spoke about glass fibres.

Card 3/5

The Production of Glass in the Ukrainian SSR Must be
Developed. From the Technical Conference of Representatives
of the Glass Industry

72-2-18/20

- 18.) Perederiyenko (Director of the Glass Works at Lvov) spoke about plate glass of high quality.
- 19.) Myasnikov (Detsent of the Polytechnic Institute of Kiyev) spoke about the production of glass tiles.
- 20.) Resnikov (PKB of the Institute for Glass), Minakov ("Avto-steklo" Works, Konstantinovka), Dolbin ("Proletariy" Works), Kolesnikov (Plant imeni October Revolution), Zhirnov (TsKB MPSP Ukrainian SSR) spoke about problems of mechanization.
- 21.) Pod"yel'skiy spoke about the packing of glass.
- 22.) Baklanov (Head of the Sovnarkhose Stalinak) spoke about the development of new building materials in that province.
- 23.) Potanin (Deputy Chief of the Department for Building Materials of the Gosplan USSR) spoke about general problems of the glass industry.

Decisions were made with a view of increasing the efficiency and the quality of the products of glass works and the works producing

Card 4/5

The Production of Glass in the Ukrainian SSR Must be
Developed. From the Technical Conference of Representatives
of the Glass Industry

72-2-18/20

refractories. On the basis of the Ukrainian branch it is intended
that a Ukrainian Scientific Research Institute for Glass be
established at Konstantinovka.

AVAILABLE: Library of Congress

Card 5/5

DUBROVSKIY, V.A.

AUTHORS: Bondarev, K.T., Director of the "Avtosteklo" Works, 72-2-8/20
Dubrovskiy, V.A., Director of the Ukrainian Branch of
the Institute for Glass

TITLE: The Application of Rare Earth Preparations in the Glass Industry
(Primeneniye v stekol'noy promyshlennosti preparatov redkikh zemel').

PERIODICAL: Steklo i Keramika, 1958, 15 Nr 2, pp. 21-24 (USSR)

ABSTRACT: Cerium dioxide can be used for the decolorization of glass, but, because of its high price, it is not used in a pure state. At present, however, cerium-dioxide-containing preparations are available at comparatively low prices. They are adulterated in different degrees by lanthanum-, neodymium-, praseodymium- and other oxides of rare earths (preparations KU-10). For the purpose of investigating the possibility of decolorizing glass by means of these preparations 3 types of glass were smelted as an experiment. The composition of these 3 types of glass is shown in table 1. L.G. Gurvits assisted in this work [Ref.1]. The transparency of the glass samples was measured by means of the photometer KPT-15. In their quality of glass decolorizing media preparations of arsenic- and antimony oxides, cerium dioxide, KU-10 and polirite were used. The cerium dioxide content in the preparations KU-10 and polirite is shown in table 4. The results obtained by the

Card 1/2

The Application of Rare Earth Preparations in the Glass Industry 72-2-8/20

glass-decolorization tests carried out by means of a mixture of antimony- and arsenic oxides are shown in table 2, those carried out with a cerium dioxide preparation in table 3, and those in which the preparations KU-10 and polirite were used are shown in table 4. The experiments are then described and explained in detail. As may be seen from fig. 1, polirite possesses the greatest polishing efficiency, and fig. 2 shows a comparison with other polishing media. Polirite substances already used can be used repeatedly. By the introduction of polirite in the plant Konstantinovka "Avtosteklo" the efficiency of the polishing process has been increased to 1.3-1.8 of its former extent. Some of the other rare earths compounds might also find suitable use in the glass industry: neodymium- and praseodymium oxides as coloring agents for light filters and artificial glass, lanthanum oxide for the production of high-efficiency refractories. There are 2 figures, 4 tables, and 4 references, 3 of which are Slavic.

ASSOCIATION: Konstantinovka "Avtosteklo" Works (Konstantinovskiy zavod "Avtosteklo")
Ukrainian Branch of the Institute for Glass (Ukrainskiy filial instituta stekla).

AVAILABLE: Library of Congress

Card 2/2

15(2)

AUTHORS:

Dubrovskiy, V. A., Dubrovskaya, T. S.

SOV/72-59-7-10/19

TITLE:

Investigation of the Influence of Glass Polishing Accelerators by Means of Marked Atoms (Issledovaniye prirody deystviya uskoriteley polirovaniya stekla s pomoshch'yu mechenykh atomov)

PERIODICAL:

Steklo i keramika, 1959, Nr 7, pp 30 - 35 (USSR)

ABSTRACT:

Academician I. V. Grebenshchikov assumed in his paper (Footnote 1) that the acceleration of the glass polishing by means of crocus-suspensions containing electrolytes is caused by the fact that beside the glass hydrolysis the reactions of ion exchange between glass and the solutions are of great importance. The investigations of Yu. A. Gastev (Footnote 2) showed that the protective properties of the surface film on the glass are effected by the presence of calcium ions. V. A. Dubrovskiy in his former papers (Footnote 3) was of the opinion that the dissolution of the glass without the protective film is the basis of the glass polishing process. Therefore it must be assumed that the polishing intensity can be increased under conditions being favourable for the transition of calcium ions from the glass into the solution. For the purpose of examining these conditions the authors of this paper studied the transition of the calcium ions from the glass into the crocus-suspensions containing

Card 1/3

Investigation of the Influence of Glass Polishing Accelerators SOV/72-59-7-10/19
by Means of Marked Atoms

salts which retard or accelerate the polishing process according to investigations of N. N. Kachalov, V. G. Voano, A. I. Korelova (Footnote 4). Besides both the transition of iron ions from the crocus, the thickness of the iron silicate films forming in the course of the polishing on the glass surface and the absorption of iron ions by the glass were investigated. For the experiments vertically drawn glass marked with the radioactive isotope Ca^{45} , a radioactive solution of chlorine- Fe^{59} , and crocus obtained by burning a well washed ferric hydroxide at a temperature of 680° were used. The measurement of the radioactivity of the preparations was carried through by means of the radiometric standard apparatus of the type B with a front integrating apparatus TM-20. In the table the values of the remaining activity of the vertically drawn glass are given which was polished by means of suspensions of radioactive crocuses in water and electrolyte-solutions. From the paper by V. N. Simakov (Footnote 5) it may be seen that the silicic acid is the protection for the sol of ferric hydroxide. In a static condition of the powder the transition of calcium from the glass into the solutions of HCl , FeCl_3 , AlCl_3 and polirite- and crocus-suspensions containing these

Card 2/3

**Investigation of the Influence of Glass Polishing Accelerators SOV/72-59-7-10/19
by Means of Marked Atoms**

electrolytes is represented in figure 1. In this connection the study of Yu. V. Rogoshin is mentioned. The test results in shaking the marked glass powder are given in figure 2. In figure 3 the transition of calcium- and sodium-ions from the glass into the solutions is represented in dependence of the pH of the medium. It may be seen from the investigations that beside the reactions of the ion exchange also other physicochemical factors must be taken into account for the interpretation of the nature of the acceleration effects. The investigations also showed that the composition of the surface protective film on the glass depends on the medium in which it has formed. There are 3 figures, 1 table, and 8 references, 6 of which are Soviet.

Card 3/3

86154

1572120 1136 1155

S/072/60/000/012/002/008
B021/B058

AUTHORS: Dubrovskiy, V. A., Guzhavin, O. V.

TITLE: The Influence of the Composition of Acid Baths on the
Hardening of Sheet Glass

PERIODICAL: Steklo i keramika, 1960, No. 12, pp. 8 - 11

TEXT: Special investigations have been made regarding the rate of glass etching in mixtures of hydrofluoric acid and sulfuric acid. The experiments were conducted with glass from the Konstantinovskiy zavod "Avto-steklo" (Konstantinovka "Avtosteklo" Plant). The experimental results of the etching of vertically drawn glass within 15 min are shown in Fig.1. The rate of etching not only depends on the chemical composition of glass, but also on processes occurring in the acid baths. The influence of the composition and concentration of various acid baths on the strength of glass was established in experiments. The mechanical strength of glass in these and subsequent experiments was determined by symmetrical bending. The experimental results of glass etching in acid mixtures show that the glass durability depends to a high degree on the chemical

Card 1/2

The Influence of the Composition of Acid
Baths on the Hardening of Sheet Glass

86154

S/072/60/000/012/002/008
B021/B058

composition of the glass. The bath 5.25 N HF + 6 N H₂SO₄ warrants the highest rate of etching, best quality of the glass surface, and highest mechanical strength. The dependence of the strength of etched glass on the temperature of the acid bath is given in Table 2 and Fig.4, and shows that the highest strength is obtained at a bath temperature of 24°C. The mechanical strength of glass can be increased by three methods: hardening, etching in acid-containing mixtures, and treatment in transformer oil. The greatest increase of glass strength can be obtained by the successive application of these three methods, i.e., by almost seven times, starting from polished glass. A strength of 100 kg/mm² was obtained for various samples. There are 4 figures and 3 tables.

Card 2/2

DUBROVSKIY, V.A.

ВВЕДЕНИЕ

Введение

Введение

Введение

Введение

Введение

Введение

Vitreous State (Cont.)	607/5035
Chemical Properties of Glasses	
Dubrovno, S.K. Chemical Properties of Glasses	418
Elizavil'skiy, B.P., Ye.A. Masov, and V.V. Malyayev. Study of the Interaction of Silicate Glasses With Solutions by Means of the Radioactive Indicator Method	423
Dubrovskiy, V.K., and T.S. Dubrovskaya. On the Composition of the Surface Film of Soda-Lime Silicate Glasses	425
Kokorin, V.F. Effect of Alkali Earth Metal Oxides on the Chemical Stability of Glasses	432
Abramova, A.V. Leaching of Fused Vitreous Borosilicates With Aqueous Acid Solutions and the State of the Oxides in the Structure of Borosilicate Glasses	435
Maslov, L.Ye. Vitrification and Properties of Borosilicate Glasses	437
Card 19/22	
Vitreous State (Cont.)	607/5035
Bashurov, M.A., B.E. Masov, and V.S. Kuznetsov. On the Role of Aluminum in Aluminophosphate Glasses	441
Brakhorvikh, S.M., and V.M. Selovaya. Synthesis and Study of the Properties of Borosilicate Glasses	444
Discussion	446
SOME VITREOUS SYSTEMS OF A SPECIAL NATURE	
Semiconductor Glasses	
Kolomiye, B.T. Semiconductor Glasses	449
Lazko, V.A., I.V. Petras, and E.V. Poberovskaya. Electrical Properties of Some Semiconductor Oxide Glasses	454
Kolomiye, B.T., E.A. Goryunova, and V.P. Shiba. Vitreous State in Chalcogenides	456
Kolomiye, B.T. and B.V. Pavlov. Optical Properties of Chalcogenide Glasses	460
Card 19/22	
Vitreous State (Cont.)	607/5035
Kolomiye, B.T., T.S. Piontova, and T.P. Maslova. Electrical Properties of Chalcogenide Glasses	465
Vaygolin, A.A., and Ye.A. Poroy-Kobits [Doctor of Physics and Mathematics]. X-Ray Diffraction Study of Vitreous Chalcogenides of Arsenic	470
Romanovskiy, V.A., and V.V. Tarasov. Structure and Tendency to Vitrification of Halides of Group V Elements in the Periodic System of D.I. Mendeleev	474
Discussion	478
Soda Borosilicate Glasses	
Dobryshin, D.P. Control of Fused Glass Structures and Problems of the Soda Borosilicate Glass Structure Connected With It	480
Aliev, V.V. Optical Constants and Density of Soda Borosilicate Glasses	483
Card 20/22	

DUBROVSKIY, V.A.

Relation of the chemical and mechanical processes in polishing glass.
Stek. i ker. 18 no.11:9-13 N '61. (MIRA 15:3)
(Glass manufacture) (Grinding and polishing)

DUBROVSKIY, V.A.; DUBROVSKAYA, T.S.; SHKARLINSKIY, O.P.

Use of potassium compounds as radioactive indicators in
the investigation of glass manufacturing processes. Steklo
19 no.9:11-13 S '62. (Radioactive tracers) (MIRA 15:9)
(Glass manufacture)

BESSONOV, A.P.; DUBROVSKIY, V.A.

Natural vibration of systems with a variable mass. Teor. mash. i
mekh. no.105/106:62-79 '65. (MIRA 18:4)

AKHREM, A.A.; DUBROVSKIY, V.A.; KAMERNITSKIY, A.V.; MISEYENKOV, A.M.

New single-stage way of synthesizing steroid cis-16 α -, 17 α -diols
from keto oxides. Dokl. AN SSSR 162 no.4:811-813 Je '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
Submitted November 16, 1964.

ATSCC1930

of materials used, d) cooling and de-aeration systems, e) floor area per site, f) one or more cross or longitudinal sections of the and g) construction costs (where known). The reactors surveyed are: Canada), CIR (India), FR-2 (West Germany), ASTR-4 (West Germany), RFP (USSR), TVRS (USSR and others), RBMK (USSR and others), Merlin (West Germany), PWR (Pennsylvania reactor (USA), PRM (West Germany). Fig. 1 on shows the relationship of reactor power to the volume of thermal reviews led to certain general conclusions, including which are independent of the types of reactors and in them. Quarters are present in the general case: 1) administrative, 2) and communication systems quarters, 3) auxiliary units (e.g., water supply, etc), and 4) laboratory quarters. Summary table of the power, neutron stream (neutrons per second per room, per kilovolt and area per kilovolt for each reactor described. and the volumes per power unit are plotted against the type of shape of the two curves and their causes are discussed. The author of the forms, sizes, and constructions of reactors are independent of reactor type and that the size of the reactor is a function of the power. Fig. art. has: 4) figures and 2 tables.

175001930

U.S.S.R. Inshenerno-stroitel'nyy institut M. S. ...
stitute

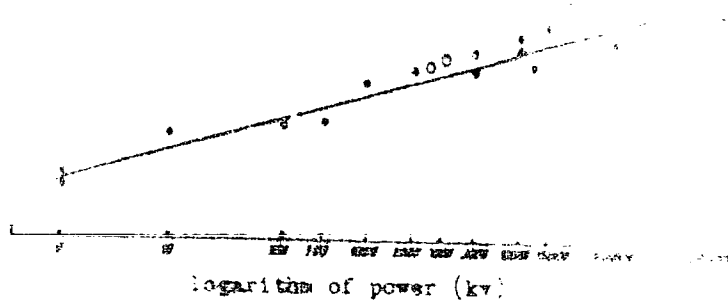
ENCL: 01

SP. PH

OTHER: 015

45001930

CSUR 01



DUBROVSKIY, V.B., insh.

Buildings for research reactors. Sbor. trud. MISI no.36:16-57
'61, (MIRA 14:7)

(Nuclear reactors)

of buildings for experimental nuclear installations.

* Nauchno-issledovatel'skiy institut (Scientific Research Institute), 1962, Yadernyykh ustanovok, Projected by the Department for the construction of nuclear installations and construction of nuclear reactor installations, experimental nuclear installations.

The author studied existing and projected experimental nuclear installations. The study was limited to the construction of experimental nuclear reactors. The purpose of the paper was the standardization of the elements of experimental nuclear reactor installations. Requirements for the construction of experimental nuclear installations, conditioned by the experimental conditions, are discussed.

DUBROVSKIY, V.B.

Designing buildings for research reactors. Sbor. trud.
MISI no. 41:3-19 '62. (MIRA 16:6)

(Nuclear reactors)

NUBROVSKIY, V.B.; KRASNOYAROV, N.V.; KULAKOVSKIY, M.Ya.; PERDAMENSHCHIK, B.E.;
PINKHASIK, M.S.; SAVITSKIY, V.I.

Use of concrete as shielding for nuclear reactors at high
temperatures. Atom. energ. 19 no.6:524-529 D '65.

(MIRA 19:1)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

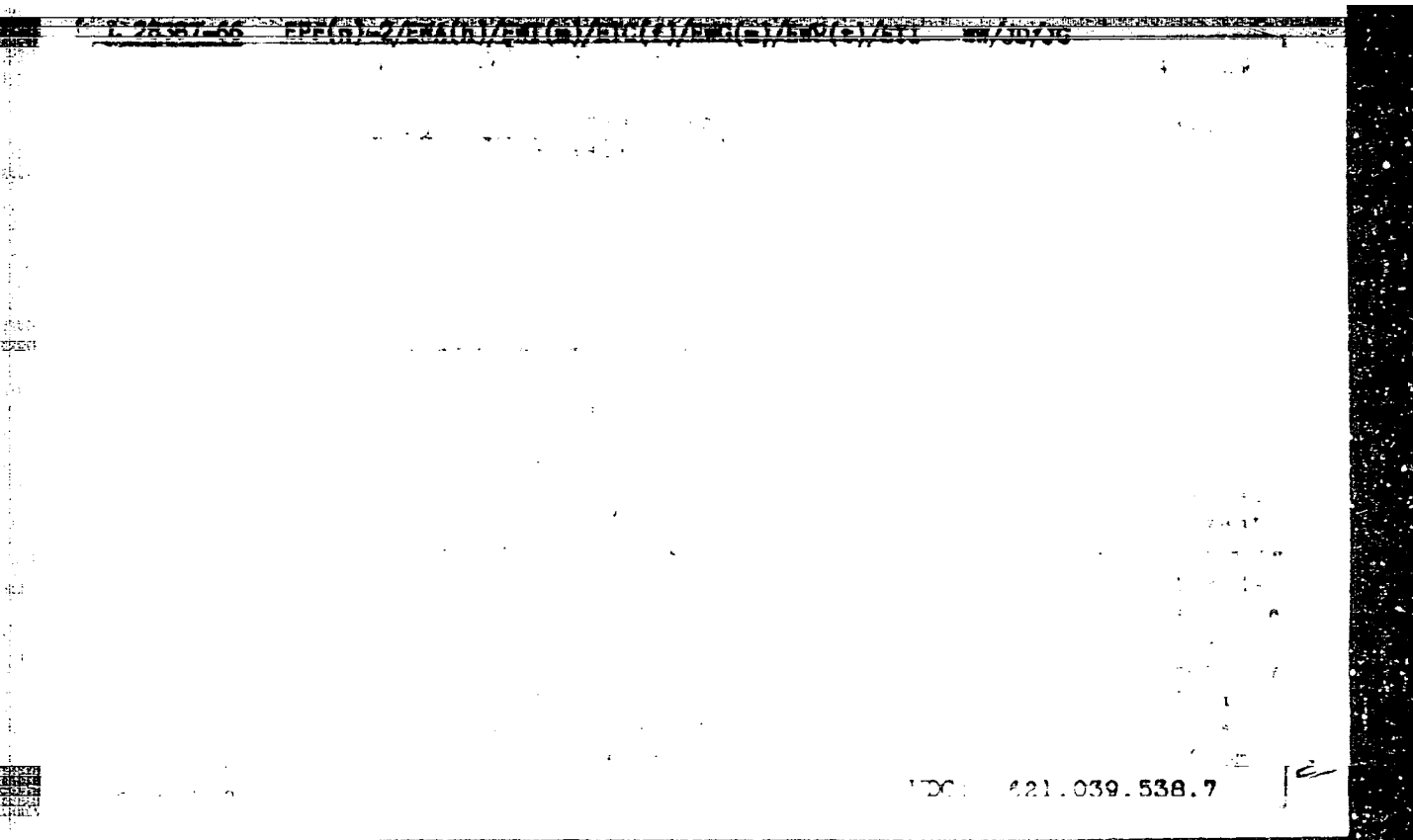
CIA-RDP86-00513R000411420005-4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

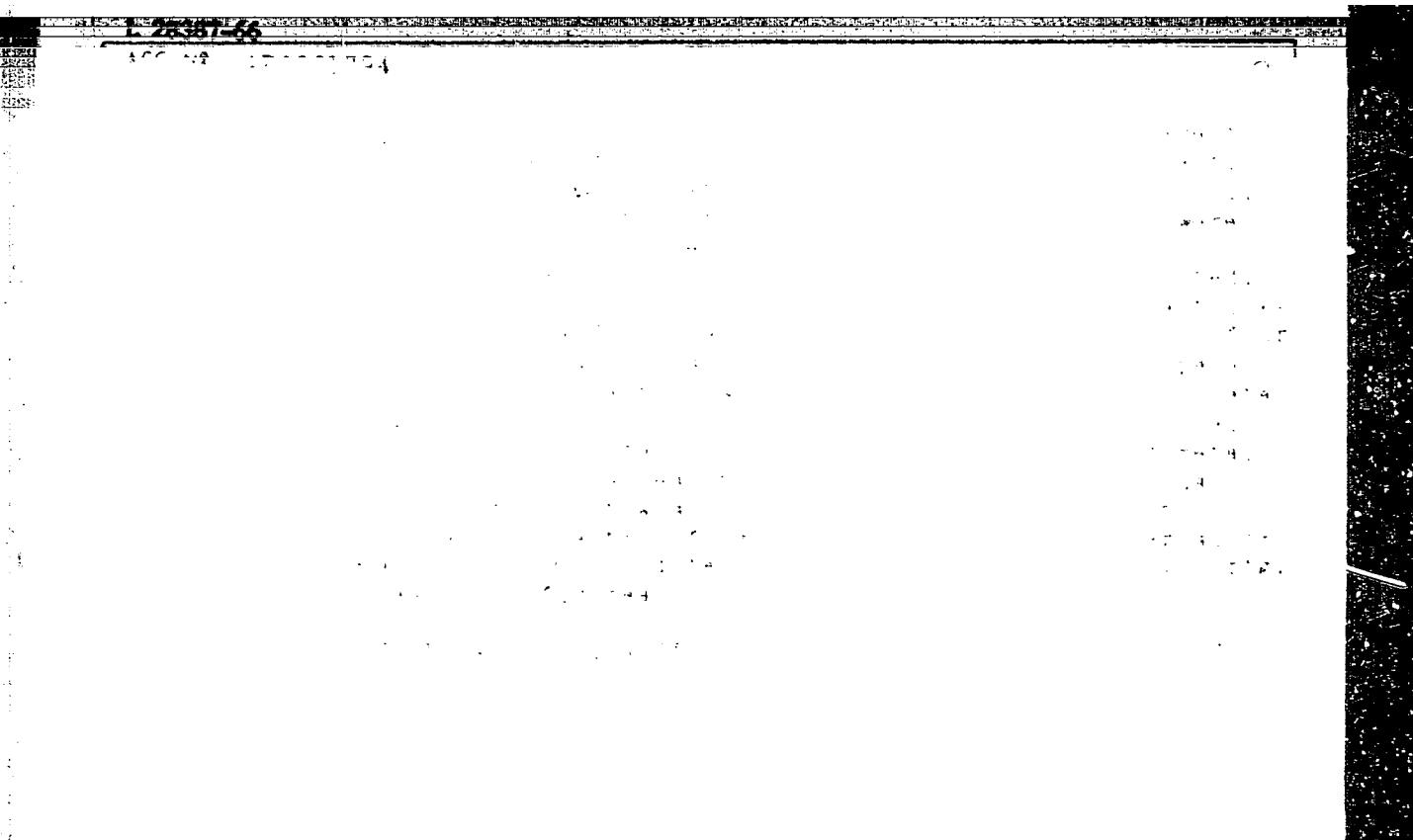


APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4



APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

L 06980-67 ENT(m)/ENP(t)/ETI JD/WW/JG/JR

ACC NR: AP6018356

SOURCE CODE: UR/0089/66/020/005/0425/0426

AUTHOR: Dubrovskiy, V. B.; Shreyber, A. K.; Mirenkov, A. F.; Solov'yev, V. N.

ORG: none

TITLE: Rock concrete shield against gamma radiation

SOURCE: Atomnaya energiya, v. 20, no. 5, 1966, 425-426

TOPIC TAGS: reactor shielding, concrete, gamma radiation

ABSTRACT: This is an abstract of article no. 80/3549, submitted to the editor and filed, but not published in full. It is proposed that rock concrete, which is made up of rocks embedded in a layer of a concrete mixture, has certain economic and technical advantages over ordinary concrete. To check on its properties, blocks were made of both concrete (specific weight 2250, 3300, and 4600 kg/m³), and rock concrete, containing limestone and hematite ore rocks, and having a specific weight 2320, 3770 and 4600 kg/m³. The experiments were made with gamma rays from a Co⁶⁰ source (activity 500 gram equivalent of radium). The shielding properties of the rock concrete were calculated under the assumption that it is a homogeneous mixture of its chemical element, using the same calculation procedure

Card 1/2

UDC: 621.039.538.7

34
B

L 06980-67

ACC NR: AP6018356

as for concrete (based on the chemical composition). The test results agreed with the calculations, and it is concluded that rock concrete shields can be designed in the same manner as concrete shields. Orig. art. has: 1 figure.

SUB CODE: 18 SUBM DATE: 18Dec65/ ORIG REF: 006

Card 2/2

L 06981-67 EWT(m)/ENP(t)/ETI JD/WW/JG/JR

ACC NR: AP6018357 (A) SOURCE CODE: UR/0089/66/020/005/0426/0427

AUTHOR: Dubrovskiy, V. B.; Ryabukhin, Yu. S.; Mirenkov, A. F.; Solov'yev, V. N. 35

ORG: none

TITLE: Passage of gamma radiation through seams of assembled concrete shields 5

SOURCE: Atomnaya energiya, v. 20, no. 5, 1966, 426-427 19

TOPIC TAGS: reactor shielding, gamma radiation, radiation dosimetry/SEM-10
gamma counter 14

ABSTRACT: This is an abstract of article no. 81/3550, submitted to the editor and filed, but not published in full. In view of lack of data on the shielding properties of assembled shields, and in view of the lack of well founded methods of calculating the passage of gamma rays through screens, the authors propose as a basic criterion for estimating the shielding efficiency a coefficient equal to the ratio of the integral or maximal dose intensities behind the assembled screen and an equivalent monolithic shield. An expression is proposed for this coefficient and its validity was tested with a cobalt source of activity 500 gram equivalent of radium in two source geometries (collimated and isotropic source. The

Card 1/2

UDC: 621.039.538.7

L 06981-67

ACC NR: AP6018357

counter used (SBM-10) had a much smaller diameter (0.6 cm) than the width of the seam, so that it could be regarded as pointlike. The experiments have demonstrated that the use of assembled shields does not lead to an appreciable local rise of the dose intensity behind the screen. The passage of the gamma radiation through the seams is described sufficiently well by the proposed formula. The effect of the seam can be compensated by increasing the shield thickness or by decreasing the seam length through the use of an assembly consisting of several layers. Orig. art. has: 2 formulas.

SUB CODE: ~~23~~ 18 SUBM DATE: 18Dec65/

Card 2/2 *AR*

L 10332-67

ENT(1)/ENT(m) CO/RM

ACC NR: AF6029793

SOURCE CODE: UR/0009/66/021/002/0108/0112

AUTHOR: Dubrovskiy, V. B.; Ibragimov, Sh. Sh.; Ladygin, A. Ya.; Pergamenshchik, B. K.

ORG: none

TITLE: Effect of neutron irradiation on certain properties of refractory concretes

SOURCE: Atomnaya energiya, v. 21, no. 2, 1966, 108-112

TOPIC TAGS: concrete, refractory product, neutron irradiation, reactor shielding, reactor neutron flux, irradiation damage

ABSTRACT: This is a continuation of earlier research on the use of refractory concrete in reactor construction (Atomnaya energiya v. 19, 524, 1965), where it was concluded that lack of data on the radiation endurance of concrete is the only obstacle to its use for shielding against intense radiation fluxes. The present article presents neutron-irradiation data on chromite refractory concrete made with portland cement and liquid glass. The concrete, in the form of briquettes 15 mm high and 15 mm in diameter, was tested in an integral neutron flux $(2-2.4) \times 10^{21}$ neut/cm² at an irradiation temperature up to 550C. The effect of the irradiation damage was examined visually and also by measuring the change of weight and dimensions, the change in the coefficient of thermal conductivity, and the change in the strength and elastic properties. It is concluded that the concrete samples retain sufficiently high strength and elas-

Card 1/2

UDC: 621.039.538.7

L 10332-67

ACC NR: AP6029798

6

ticity, nor do noticeable changes take place in the thermal conductivity and in the coefficient of thermal expansion. This makes the material suitable for thermal shielding of nuclear reactors. Work on the influence of irradiation on the shrinkage and setting of the concrete and other strength characteristics are being presently continued. The authors thank A. M. Komarovskiy for suggesting the research, and A. M. Vorob'yev, V. F. Gulyayeva, M. Ya. Kulakovskiy, P. G. Pinchuk, and V. I. Savitskiy for help with the work. Orig. art. has: 3 figures and 3 tables

SUB CODE: 18/ SUBM DATE: 08Dec65/ ORIG REF: 004/ OTH REF: 003
///

Card 2/2 ml

L 06871-67 LWF(m)/LWP(t)/ETI JD

ACC NR: AP6034098

(A)

SOURCE CODE: UR/0089/66/021/004/0293/0293

AUTHOR: Broder, D. I.; Dubrovskiy, V. B.; Lavdanskii, P. A.; Pospelov, V. P.;
Solov'yev, V. N.

32

B

ORG: none

TITLE: Shielding property of heat resistant chromite and magnesite concretes

15

SOURCE: Atomnaya energiya, v. 21, no. 4, 1966, 293

TOPIC TAGS: nuclear shielding, nuclear reactor shield, neutron shielding, concrete

ABSTRACT: A comparative experimental study was made of the shielding property of ordinary concrete and of chromite-and magnesite-base concretes. Experiments were carried out in a VVR-Ts reactor of the Karpov Physicochemical Institute. The experimental relaxation distance data for gamma-radiation showed that heat-resistant chromite and magnesite concretes, even dehydrated, were good shielding materials and may be recommended for use in the thermal shield of the reactors at 800—1700C. Orig. art. has: 1 table.

18

SUB CODE: 11, 18/ SUBM DATE: 12May66/ ORIG REF: 001/ ATD PRESS: 5101

Card

1/1

UDC: 621.039.538.7

DUBROVSKIY, V.D.; BOROVSKIY, Ye.V.

The TKZ unified gas-black oil burner. Rul.tekh.ekon.inform.Gos.
nauch.-issl.inst.nauch.i tekhn.inform. 17 no.10:62-65 0 '64.

(MIRA 18:8)

BLIZNYUKOV, Yuriy Nikolayevich; BOCHKAREV, Vladimir Ivanovich;
BURACHKOVSKIY, Vladimir Vladimirovich; GIBREYKH, Lazar'
Isaakovich; DUBROVSKIY, Viktor Fedorovich; ISMAILOV,
Sadykh Ismail-ogly; SAZONENKO, Petr Alekseyevich; SMIRNOV,
Arseniy Sergeyevich; STROMYATNIKOV, Yevgeniy Sergeyevich;
SUSLENNIKOV, Nikolay Mikhaylovich; KAYESHKOVA, S.M., ved.
red.; TROFIMOV, A.V., tekhn. red.

[Practice of innovators in drilling and exploiting oil wells]
Opyt novatorov bureniia i ekspluatatsii neftiannykh skvazhin.
Moskva, Gos. nauchno-tekhn. izd-vo nef. i gorno-toplivnoi
lit-ry, 1961. 67 p. (MIRA 15:3)

1. Moscow. Tsentral'noye byuro promyshlennykh normativov po
trudu.

(Oil well drilling) (Automatic control)
(Oil fields—Equipment and supplies)

DUBROVSKIY, V.F., inzh.

Use of repeater relays in regulation, signaling, and automatic control networks. Prom. energ. 18 no.11:18-19 N '63. (MIRA 16:12)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4

CONFIDENTIAL, U. S.

Range of the ...

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420005-4"

ALIYEV, G.A.; SEMENOV, P.G.; BULANZHIN, Yu.D.; ROZOVA, Ye.A.; DUBROVSKIY, V.G.;
ARKHANGEL'SKIY, V.M.; TSEKHAKAYA, A.D.; NAZAROV, A.G.

Comments of participants of the meeting. Biul.Sov.po seism. no.1:85-92
'55. (Seismology) (MIRA 9:9)

DUBROVSKIY, V.G.

DUBROVSKIY, V.G.

Preliminary data on the study of the relationship between the field disturbance of terrestrial currents and the seismic activity of Ashkhabad District. Trudy Inst. fiz. i geofiz. AN Turk. SSR 3:97-115 '57. (MLBA 10:9)

(Ashkhabad District--Seismometry)

DUBROVSKIY, V.G.
DUBROVSKIY, V.G.; YURKHANOVA, D.Sh.

Regular earth current variations during a solar day in the
Ashkhabad area. Izv.AN Turk.SSR no.4:100-104 '57. (MIRA 10:10)

1. Institut fiziki i geofiziki AN Turkmenskoy SSR.
(Ashkhabad District--Terrestrial electricity)

DUBROVSKIY, V.G.

Experience in using the differential method for the study of seismo-electrical phenomena. Trudy Inst. fiz. i geofiz. AN Turk. SSR 4:9-21 '58. (MIRA 11:9)

(Seismology) (Terrestrial electricity)

DUBROVSKAYA, Ye.K.; DUBROVSKIY, V.G.

State of the ionosphere, geomagnetic field, and earth currents
during the auroras recorded in Ashkhabad on September 4 and 29,
1957. Izv. AN Turk. SSR no.4:104-105 '58. (MIRA 11:10)

1. Institut fiziki i geofiziki AN Turkmeneskoy SSR.
(Auroras)

DUBROVSKIY, V. G.

"The rapid geoelectric and geomagnetic variations and their regularities according to the observations in Ashkhabad."

report presented at the Intl. Association of Geomagnetism and Aeronomy, Symposium on Rapid Geomagnetic Variations, Utrecht, Netherlands, 1-4 Sep 59.

DUBROVSKIY, Y.G. - ZHIRMANOV, M.

Effect of the solar eruption of March 23, 1958, on the condition of the ionosphere and on the geomagnetic pole; based on observations made in Ashkhabad. Izv. AN Turk. SSR. no.1:110-112 '59.

(MIRA 12:5)

1. Institut fiziki i geofiziki AN Turkmenskoy SSR.
(Sun) (Magnetism, Terrestrial—Observations)
(Ionosphere)

DUBROVSKIY, V.G.

Relation between geomagnetic activity and perturbations of the
F₂ layer of the ionosphere. Izv. AN Turk SSR no.2:3-12 '59.
(MIRA 12:6)

1. Institut fiziki i geofiziki AN Turkmenskoy SSR.
(Magnetism, Terrestrial) (Ionosphere)

89804

S/169/61/000/003/022/022

A005/A005

3,9100

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 3, p. 46, # 30362

AUTHOR: Dubrovskiy, V. O.

TITLE: Some Results of the Study of Fast Geomagnetic and Geoelectric Variations in the Ashkhabad Region

PERIODICAL: "Izv. AN Turkmen SSR. Ser. fiz.-tekhn., khim. i geol. n.", 1960, No. 1, pp. 47-54

TEXT: The author describes the recording and processing methods, and presents results from the analysis of short-periodical fluctuations since beginning of 1956 to the middle of 1958. Pc-type fluctuations have the maximum probability of appearance at local midday. The maximum of appearance of PcR falls in by 3 hours earlier, i. e., at 5 o'clock of universal time. Pt-type perturbations have highest probability of appearance at local midnight and are practically absent in the daytime. The regularities in the diurnal course of the fluctuations of both type are independent of the season. The probability of appearance of short-periodic fluctuations has a maximum in summer. The frequency spectrum of fluctuations was obtained. For Pc, the main interval is 20-25 sec, for PcR it is

Card 1/2

89804

S/169/61/000/003/022/022
A005/A005

Some Results of the Study of Fast Geomagnetic and Geoelectric Variations in the Ashkhabad Region

15-20 sec, and for Pt it is 55-60 sec. 46 events of beat-type fluctuations (PP) with periods of 1.5-20 sec were recorded in the period from June 1957 to September 1958. Their maximum falls in the nightly hours. It is noted that the PP-type perturbations with amplitudes greater than 1 mv/km are connected with polar lights which permeate into the lower latitudes. There are 9 references. X

G. Fonarev

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

29881
S/169/61/000/009/044/056
D228/D304

9.9/30 (1046)

AUTHOR: Dubrovskiy, V. G.

TITLE: Certain patterns of magnetic and ionospheric disturbances from observations at Moscow and Ashkhabad

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 21, abstract 96176 (Izv. AN Turkmen SSR, ser. fiz.-tekhn., khim. i geol. nauk, no. 6, 1960, 23-29)

TEXT: Displacement patterns in the time between outbreaks of magnetic and ionospheric storms, $D_{st}(\Delta f_{oF2})$ -variations at the time of magnetic and the probability distribution of $\pm \Delta f_{oF2}$ on magnetically-quiet and magnetically-disturbed days are examined from the data of ionospheric and magnetic observations at Moscow and Ashkhabad for the period 1952 - 1958. Ionospheric storms were only accompanied by magnetic storms in 55% of the cases at Moscow (largely negative ones) and in 34% of the cases at

Card 1/3

29884

S/169/61/000/009/044/056

D228/D304

Certain patterns of...

Ashkhabad (both positive and negative ones). The time displacement between magnetic and ionospheric storms depends on the local time of outbreak of the magnetic storm. If a magnetic storm starts in daylight hours, then, owing to the presence of the "forbidden" time of the day for the outbreak of ionospheric storms, the latter only begin after sunset. If a magnetic storm has started in the evening, night, or morning, the ionospheric storm either begins simultaneously with the magnetic storm or after some delay, but, nevertheless, before sunrise. The outbreaks of an ionospheric storm in relation to a magnetic storm are most retarded if the magnetic storm starts immediately after sunrise and least retarded if it begins before sunset. The distribution of values of $\pm \Delta f_{F2}$

for magnetically-quiet days approximates to the Gauss law; for magnetically-disturbed days the distribution curve changes at the expense of the increased probability of the appearance of large negative Δf_{F2} values for Moscow and Δf_{F2} values of both signs for Ashkhabad. It follows from the $D_{st}(\Delta f_{F2})$ -variations that maximum negative ionospheric

Card 2/3

Certain patterns of...

2988L
S/169/61/000/009/044/056
D228/D304

disturbances for Moscow and Ashkhabad are observed 21 - 24 and 15 - 18
hrs. respectively after the start of a magnetic storm. [Abstracter's
note: Complete translation.]

X

Card 3/3

^I
DUBROVSKY, V. G., S. A. KRAMARENKO, S. A., ~~TRITSKAYA, Y. A.~~

"On the Morphology of Ionospheric Disturbances Depending on the
Character of Commencements of Geomagnetic Storms."

report submitted for the Intl. Conf. on Cosmic Rays and Earth Storm (IUPAP)
Kyoto, Japan 4-15 Sept. 1961.

29730

S/169/61/000/008/051/053

A006/A101

3.9120 (1121/1215)
3.9400 (11482)

AUTHOR: Dubrovskiy, V.O.

TITLE: Rapid geoelectric and geomagnetic variations and their regularities
(from observations made in Ashkhabad)

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 8, 1961, 42, abstract 80281
(V sb. "Korotkoperiod. kolebaniya elektromagnitn. polya Zemli, no. 3", Moscow, AN SSSR, 1961, 35 - 40, English summary)

TEXT: The author presents results of investigating rapid geoelectric and geomagnetic variations from observations made in Ashkhabad (Institut fiziki i geofiziki Turkmenkiy SSR - Institute of Physics and Geophysics of Turkmenian SSR). The investigation included: stable variations of regular (pc_R) and irregular (pc_I) nature, variations with unstable mode of regular (pt_R) and irregular (pt_I) shape; variations of the beat "pearl" (zhemchuzhina) type (pp), sudden commencements of geomagnetic and geoelectric storms (ssc) and bay-type disturbances (b). (pc_R) and (pc_I) arise most probably (55%) at local midday and least probably (4%) at local midnight. The nature of the diurnal run of pc_R and pc_I change with annual seasons and from year to year. Maximum values of probab-

X

Card 1/ 2

29730

S/169/61/000/008/051/053
A006/A101

Rapid geoelectric and geomagnetic variations ...

ility for pc disturbances were observed in 1958. The probability of arising pc disturbances during the summer months is 1.5 - 2 times greater than during the winter. During a magnetically disturbed days it is 10% higher than during quiet days. po_1 with $T \sim (20 : 25)$ sec and po_R with $T \sim (15 : 20)$ sec are most frequent. pt variations arise mainly during the night with a maximum (18%) at local midnight. Maximum pt number was observed in 1958 and the probability of their appearance is greater in summer than in winter. $T \sim (55 : 60)$ sec is most characteristic of pt. Variations of pp type were recorded from July 1957 to March 1959 in 66 cases; 60 of them were observed during magnetic storms. pp with $T (1-2)$ sec. occur most frequently. The diurnal distribution of pp is characterized by their maximum recurrence during the night. b disturbances have analogous diurnal distributions; however, from 42 b-cases only 3 were accompanied by pp, and 27 b were accompanied by pt. Intensive pp were observed in Ashkhabad during aurorae polaris, which were instrumentally registered. asc have usually the following signs on magnetograms: H_+ , D , Z_- . The vector of telluric currents is in this case strictly polarized and oriented at an angle of 120° to the east-west direction. asc are accompanied by associated variations with $T \sim (6 : 15)$ sec and 2 - 5 minutes duration. ✓

K. Zybin

[Abstracter's note: Complete translation]

Card 2/2 * $\div = to$; e.g. $15 + 20 = 15 to 20$

DUBROVSKIY, V.G.; KULIYEVA, R.N.; NEPESOV, K.

Solar daily variations of the earth's electromagnetic field
according to observations made in Ashkhabad. Geomag. i aer.
1 no.3:413-416 My-Je '61. (MIRA 14:9)

1. Otdel razvedochnoy geofiziki i seysmologii AN Turkmenaskoy
SSR.

(Terrestrial electricity)
(Magnetism, Terrestrial--Diurnal variation)

42163

S/203/62/002/001/014/019
1023/1223

9.9/80

AUTHORS: Dubrovskiy, V.G. and Kramarenko, S.A.

TITLE: On the morphology of magneto-ionospheric disturbances depending on the solar activity level and the characteristics leading to geomagnetic storms.

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 121-125

TEXT: The inter-relation of geomagnetic and ionospheric disturbances in the F2 layer is investigated. The dependence on solar activity level takes into account the sign of the fluctuations of the critical frequency f_oF2 and the characteristics of geomagnetic storms. Data obtained at two ionospheric stations (Moscow - medium latitude, Ashkhabad - the most southern in USSR) for different years of the solar activity cycle 1951-1960 are analysed. The data relates to two days before the commencement of a geomagnetic disturbance and to the two following days. As a main criterion of an ionospheric disturbance a minimum 20% de-

Card 1/3

S/203/62/002/001/014/019
I023/I223

On the morphology of magneto-ionospheric...

violation from the monthly sliding median of the critical frequency (f_oF_2) was taken.

For magnetic disturbances with a gradual commencement (GC) in Moscow the fraction of negative ionospheric disturbances is much higher than in Ashkhabad. For positive ionospheric disturbances the opposite was true. The fraction of ionospheric disturbances connected with geomagnetic storms with a sudden commencement (SC) both in Moscow and in Ashkhabad is higher than for GC magnetic storms. The correlation between magnetic storms and solar activity is investigated. The clearest correlation is for SC-type magnetic storms. Only negative ionospheric disturbances caused by SS-type magnetic storms can be closely correlated with the 11-year cycle of solar activity. The conclusions are: a) at medium latitudes negative ionospheric disturbances are caused by direct action of corpuscular streams on the upper atmosphere. b) positive ionospheric disturbances at medium latitudes are in most cases not

Card 2/3

S/203/62/002/001/014/019
I023/I223

On the morphology of magneto-ionospheric...

connected with corpuscular radiation from the Sun. There are 3 figures and 1 table.

ASSOCIATION: Otdel razvedochnoy geofiziki i seysmologii
Akademii nauk Turkmeniskoy SSR (Section of
prospecting geophysics and seismology, Academy
of Sciences Turkmen SSR)

SUBMITTED: December 1, 1961

Card 3/3

151

S/203/62/002/004/013/018
1046/1242

9.9/30
AUTHORS:

Dubrovskiy, V.G. and Kramarenko, S.A.

TITLE:

Some regularities in the diurnal, seasonal, and latitudinal distribution of magneto-ionospheric disturbances

PERIODICAL: *Geomagnetizm i aeronomiya*, v.2, no.4, 1962, 737-745

TEXT: Deviations in f_oF_2 , as recorded hourly in the USSR and India from 1952 to 1953 (minimum solar activity) and from 1957 to 1959 (maximum activity), and the magnetic characteristics of these same regions were used for the analysis of the latitudinal, diurnal and seasonal distribution of magneto-ionospheric disturbances. The geomagnetic disturbance is proportional to the geomagnetic latitude of the observation point. The geomagnetic latitudes from 30 to 40° constitute the boundary zone between the middle-latitude and the equatorial distributions of the ionospheric disturbances. There are two categories of ionospheric disturbances: 1) magneto-ionospheric characterized by correlation with the geomagnetic activity

S/203/62/002/004/013/018
1046/1242

Some regularities in the diurnal...

level and the geomagnetic latitude of the observation point, by a decrease in Δf_oF2 for all latitudes (the maximum being attained in the polar region and the minimum on the equator), and by a maximum disturbance during the equinoxes and a minimum in winter; 2) ionospheric disturbances on magnetically quiet days characterized by positive Δf_oF2 values, increased disturbance at low latitudes, seasonal independence in low latitudes and a winter maximum in high and middle latitudes. The clear positive correlation between the magneto-ionospheric disturbances and the geomagnetic activity level points to the corpuscular origin of category (1) of ionospheric disturbances. The ionospheric disturbances on magnetically quiet days [category (2)] are linked with weak corpuscular solar radiation (low-energy corpuscular streams) and with purely ionospheric processes. There are 8 figures and 1 table.

ASSOCIATION: Otdel razvedochnoy geofiziki i seysmologii AN Turkm.

Card 2/3

S/203/62/002/004/013/018
IO46/I242

Some regularities in the diurnal...

SSR (Department of Prospecting Geophysics and Seis-
mology, AS TurSSR) X

SUBMITTED: March 13, 1962

Card 3/3

DUBROVSKIY, V.G.; SOLOKHOV, V.V.; SHIKHANOVICH, E.L.

Applicability of the method of long-period variations of the telluric currents in the case of a complex geoelectric cross section. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.4:26-33 '63.

(MIRA 17:2)

1. Otdel razvedochnoy geofiziki i seysmologii AN Turkmenской SSR.

DUBROVSKIY, V.G.; KRAMARENKO, S.A.

Some supplementary remarks about the diurnal and geographic distribution of ionospheric and magnetic-ionospheric disturbances. Geomag. i aer. 3 no.2:368-370 Mr-Apr '63.

(MIRA 17:2)

1. Otdel razvedochnoy geofiziki i seysmologii AN Turkmeniskoy SSR.

ACC NR: AT6028368

(N)

SOURCE CODE: UR/0000/65/000/000/0033-0044

AUTHOR: Mil'shteyn, D. M.; Avagimov, A. A.; Dubrovskiy, V. G.; Lykov, V. I.; Pavlenkin, A. D.; Solokhov, V. V.; Shikhanovich, E. L.

ORG: none

TITLE: New trends in studying the structure of the crust and upper mantle by geophysical methods in Turkmenistan

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskkiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 33-44

TOPIC TAGS: Earth crust, upper mantle, magnetotelluric survey, seismologic investigation, seismic wave, fault / *TURKISTAN*

ABSTRACT: The present paper summarizes the results of geophysical investigations of the Earth's crust and mantle performed since 1961 in the Epihercynian Kara-Kum platform and the folded Alpine region of Kopet-Dag. Magnetotelluric surveys and seismological investigations were conducted along a 110-km submeridional profile extending between Ashkhabad and Bakhardok. Several interfaces were investigated in the area near Ashkhabad. A geological cross section along the profile showing the structure of the Earth's crust and the upper mantle down to 85 km has been prepared

Card 1/2

ACC NR: AT6028368

from the geophysical data. The region lying between the Epihercynian platform and the geosyncline has been analyzed. The presence of lateral inhomogeneities in the mantle is noted. The presence of deep-seated faults is discussed, and their location and extent are determined. Orig. art. has: 1 figure.

SUB CODE: 08/ SUBM DATE: 06Jan65/ ORIG REF: 026/ OTH REF: 002

Cord 2/2

L 47108-66 ENT(1)/FCC GW

ACC NR: AR6019884

SOURCE CODE: UR/0169/66/000/002/G001/G002

AUTHOR: Mil'shteyn, D. M.; Avagimov, A. A.; Dubrovskiy, V. G.; Lykov, V.I.; Pavlenkin, A. D.; Solokhov, V. V.; Shikhanovich, E. L.

55
543

TITLE: The formulation of new trends of research on the structure of the Earth's crust and upper mantle in Turkmenistan by geophysical methods

SOURCE: Ref. zh. Geofizika, Abs. 2G6

REF SOURCE: Sb. Geol. rezul'taty prikl. geofiz. Geofiz. issled. stroeniya zemn. kory. M., Nedra, 1965, 33-44

TOPIC TAGS: Earth crust, upper mantle, electromagnetic field, magnetotelluric probing, seismologic testing

ABSTRACT: Information on the structure of the Earth can be obtained by a magnetotelluric probing method of observation and interpretation of the recordings of various types of elastic waves, generated during natural earthquakes, and by studying the variations with different periods of the natural electromagnetic field of the Earth. This method is based on the study of the ratio of variations in the electric and magnetic components of the Earth's electromagnetic field.

Card 1/2

UDC: 550.311:551.14(575.4)

L 47108-66

ACC NR: AR6019884

Magnetotelluric probing stations provide the possibility of studying variations of the electromagnetic field during a period of 10 seconds to 24 hours. For improved seismological testing, it was very important to design equipment with an intermediate magnetic recording. An increased resolution of the recordings of the seismograph made it possible to use new inputs to determine the type and analysis of composite waves. Seismological observations and subsurface magnetotelluric probing in Turkmenistan proved the possibility of using both methods for studying sedimentary layers as well as the structure of the Earth's crust and the upper mantle down to depths of approximately 200--250 km. [Translation of abstract] [FM]

SUB CODE: 18, 20/

hs

Card 2/2

DOBROVSKIY, V.I. subnoy vrach

Oral hygiene in pioneer camps. Zdrav. Bol. 7 no.12:57-58 D '61.
(MIRA 15:2)

1. Bobruyskaya gorodskaya stomatologicheskaya poliklinika (glavnyy
vrach F.S.Kostusev).
(TEETH CARE AND HYGIENE)

RASKIN, Iosif Aleksandrovich; KALISH, Samuil Ionovich; MATVEYEV,
Vladimir Ivanovich. Prinimali uchastiye; DUBROVSKIY, V.I.;
KOPEYKIN, V.M.; D'YAKOVA, G.B., red. izd-va; IL'INSKAYA,
G.M., tekhn. red.

[Installation, adjustment and operation of fans in mines] Mon-
tash, naladka i ekspluatatsiya shakhtnykh ventilatorov. Mo-
skva, Gosgortekhnizdat, 1962. 296 p. (MIRA 16:2)
(Mine ventilation)

W. E.

314.8 On a Problem Connected with Purely Discontinuous Random Processes.—V. M. DUBROVSKII. (U. R. Acad. Sci. U.N.S.S.R., 1943. Vol. 47, No. 7, pp. 434-461. In English.) 1874

Dubrovsky, V. Remarks to my paper on the
of completely additive set functions and their
limit under the integral sign.
Sov. Math. Doklady Akad. Nauk SSSR
1947) (Russian - English translation)
The results of the author are in
111-120 (1945) (see Rev. of Math. Sci.
pletely additive measures which
are extended to the case where the
contain the individual points of the
defined on the Borel sets of a topological
given, showing the relations between
convergence of sequences of set functions.

... Reviews,

7.1 L

[illegible]

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

2. The second part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

3. The third part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

4. The fourth part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

5. The fifth part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

6. The sixth part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

7. The seventh part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

8. The eighth part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

9. The ninth part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

10. The tenth part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

DUBROVSKIY, V.M.

24725. DUBROVSKIY, V.M. O Ravnostepenno Summiruemyykh Funktsiyakh I O Svoystvakh
Ravnomernoy Additivnosti I Ravnostepennoy Nepreryvnosti Semaystva Vpolna
Additivnykh Funktsiy Khoshestva. Izvestiya Akad. Nauk Sssr, Seriya Matem.,
1949, No. 4, S. 341-56.--Bibliogr: S. 356.

SO: Leptois' No. 33, 1949

DUBROVSKIY, V. M.

PA 22TT56

USSR/Mathematics - Modern Algebra, 1 Aug 52
Integrals

"A Property of Nikodym's Formula,"
V.M. Dubrovskiy

"Dok Ak Nauk SSSR" Vol 85, No 4, pp 693-696

Extends O. Nikodym's work (Fund Math 15, 131, 1930) concerning families of completely additive functions of a set which are defined and finite for any ϵ in set M (M is a family of subsets A , which are sets of several elements). Discusses measures and integrals of such functions. Submitted by Acad A.N. Kolmogorov 9 Apr 52.

22TT56

DUBROVSKIY, V.M.

Systems of non-linear integral equations. Uch.sap.Mosk.un. no.155:
206-209 '52. (Integral equations) (MIRA 8:7)

[illegible]

USSR/Mathematics - Iteration

FD-1165

Card 1/1 Pub. 118-6/30

Author : Dubrovskiy, V. M.

Title : Method of iterations

Periodical : Usp. mat. nauk, 9, No 3(61), 127-133, Jul-Sep 1954

Abstract : The author devotes the present article to an investigation of the method of iterations in its application to the equation of the type $x=f(x)$, where $f(x)$ is a monotonic continuous function increasing or decreasing. He considers also some cases where the function $f(x)$ is not monotonic. He notes that more general equation $F(x)=E(x)$ can be reduced to the type $x=f(x)$. Seven references, 2 French (Fatou, Julia) and 5 USSR (e.g. D. I. Talanov, "Some problems in the theory of iteration of a rational function," DAN SSSR, 43, No 3, 1953 [sic]; M. M. Gershanov, Iteratsionnoye ischisleniye i yego prilozheniya [Iterative calculus and its applications], Machine Construction Press, Moscow, 1950; S. P. Pul'kin, "Oscillational sequences of iterations," DAN SSSR, 73, No 6, 1950.) The author thanks M. P. Zhidkov for his interest.

Institution :

Submitted : February 2, 1954

DUBROVSKIY, V. N.

Correlation of dikes and the mineralization process in the
Khrustal'noye tin deposit. Izv. AN SSSR. Ser. geol. 22 no. 1: 32-38
Ja '57. (MLRA 10:3)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralologii
i geokhimii AN SSSR, Moskva.
(Khrustal'noye region—Tin ores) (Dikes (Geology))

BETEKHTIN, A.G.; VOL'PSOM, F.I.; GENKIN, A.D.; DOBROVSKIY, V.N.; YEROFEEV,
B.M.; KONSTANTINOV, R.M.; MATERIKOV, M.P.; SOKOLOV, G.A.; STRAKHOV,
N.M.; TATARINOV, P.M.; TOMSON, I.N.; SHADLUN, T.N.; SHATALOV, Ye.T.;
SHIPULIN, F.K.

Oleg Dmitrievich Levitskii; obituary. Geol. rud. mestorozh. no.2:
3-6 Mr-Ap '61. (MIRA 12:5)

(Levitskii, Oleg Dmitrievich, 1909-1961)

DUBROVSKIY, V.N.; KONSTANTINOV, R.M.

First Expanded Session of the Scientific Council on the Theory
of the Formation and Distribution of Endogenetic Ore Deposits
in Siberia and the Far East. Geol. rud. resourzh. 6 no.5:
104-110 5-0 '64. (MIRA 17:12)

DUBROVSKIY, V.N., KONSTANTINOV, R.M.

In the meeting of the Department of the Geology of Endogene Ore
Deposits of the Institute of the Geology of Ore Deposits, Petrology,
Mineralogy, and Geochemistry of the Academy of Sciences of the U.S.S.R.
Geol.rud.mestorosh. 7 no.4:102-104 JI-Ag '65.

(MIRA 18:8)

4-92221-66 ENT(1) CM
ACC NR: AR6015215

SOURCE CODE: UR/0269/65/000/012/0018/0019

AUTHOR: Dudinov, V. N.; Derkach, K. N.

TITLE: Preliminary measurements of the degree of polarization made with an automatic electric polarimeter

SOURCE: Ref. zh. Astronomiya, Abs. 12.51.156

REF SOURCE: Vestn. Khar'kovsk. un-ta, 1965, no. 4, ser. astron., vyp. I, 65-70

TOPIC TAGS: moon polarization, electric polarimeter, photomultiplier

ABSTRACT: A new model of an automatic electronic polarimeter produced at the Astronomical Observatory of Khar'kov University is described. The instrument has a revolving polaroid behind which a photomultiplier is placed. Measurement of polarization actually consists of measuring the amplitude of the variable component of the photocurrent. Amplification is made by direct current. The d-c amplifier is enclosed in a negative feedback which stabilizes the amplification. It is noted that the mean square of error is 1% of the measured polarization value. When measuring

Card 1/2

UDC: 522.617

DUBROVSKIY, V.P.; YEREMIN, N.Ye.; SHALIMOV, M.G.

Calculation of current nonsymmetry in the elements of an electric power system feeding a single-phase a.c. railroad with commercial frequency. Trudy TEIIZHT 35:77-84 '62. (MIRA 16:8)
(Electric railroads--Current supply)

GINZBURG, A.S.; DUBROVSKIY, V.P.

Determination of the moisture diffusion coefficient for grainy materials. Inzh.-fiz.sbur. 6 no.10:27-32 0 '63. (MIRA 16:11)

1. Tekhnologicheskii institut pishchevoy promyshlennosti, Moskva.

DUBROVSKIY, V. P.

"Accelerating the Growth and Development of Psammophytes
by Means of the Bitumenization of the Surface of Sands." Cand
Biol Sci, Inst of Botany imeni V. L. Komarov, Acad Sci USSR,
(Apr-Jun 54). (Vest Ak Nauk, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55